

Title (en)
ADDITIVE MANUFACTURING METHODS AND SYSTEMS WITH FIBER REINFORCEMENT

Title (de)
ADDITIVHERSTELLUNGSVERFAHREN UND SYSTEME MIT FASERVERSTÄRKUNG

Title (fr)
PROCÉDÉS ET SYSTÈMES DE FABRICATION ADDITIVE AVEC RENFORCEMENT PAR FIBRES

Publication
EP 2962789 A3 20160420 (EN)

Application
EP 15174469 A 20150630

Priority
US 201414318909 A 20140630

Abstract (en)
[origin: EP2962789A2] Additive manufacturing methods for fabricating a fiber-reinforced composite objects include providing at least a first layer of powder material 210, disposing a fiber material adjacent the at least first layer of powder material to form a fiber reinforcement layer 220, and applying a laser energy 230 to the at least first layer of powder material so as to fuse the powder material into at least a first laser fused material layer adjacent the fiber reinforcement layer of the fiber-reinforced composite object.

IPC 8 full level
B22F 3/105 (2006.01); **B28B 1/00** (2006.01); **B29C 67/00** (2006.01); **C22C 47/14** (2006.01); **C22C 49/02** (2006.01)

CPC (source: EP US)
B22F 10/28 (2021.01 - EP US); **B23K 26/00** (2013.01 - US); **B23K 26/342** (2015.10 - US); **B29C 64/153** (2017.07 - EP US); **C22C 47/14** (2013.01 - EP US); **C22C 49/02** (2013.01 - EP US); **B28B 1/001** (2013.01 - EP US); **B33Y 10/00** (2014.12 - EP US); **B33Y 80/00** (2014.12 - EP US); **Y02P 10/25** (2015.11 - EP US)

Citation (search report)

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Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

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DOCDB simple family (application)
EP 15174469 A 20150630; CN 201510401191 A 20150630; JP 2015130626 A 20150630; US 201414318909 A 20140630